

CLAIMS

1 1. A method of heating glass contacting surfaces, comprising the steps of:
2 heating said glass contacting surfaces to a predetermined operating temperature;
3 said heating of said glass contacting surfaces is accomplished by combustion of a
4 predetermined gas in a flame; and
5 said predetermined gas comprises a hydrocarbon fuel gas mixture which includes
6 approximately 90 percent by volume of MAPP gas.

1 2. A method according to claim 1, wherein:
2 said heating of said glass contacting surfaces to said predetermined operating
3 temperature is done before said glass contacting surfaces begin a production run.
4

1 3. A method according to claim 1, wherein:
2 said heating of said glass contacting surfaces to said predetermined operating
3 temperature is done to maintain said glass contacting surfaces at said predetermined
4 operating temperature during a production run.

1 4. A method according to claim 1, wherein:
2 said heating of said glass contacting surfaces to said predetermined operating
3 temperature is done before said glass contacting surfaces begin a production run and is
4 also done to maintain said glass contacting surfaces at said predetermined operating
5 temperature during a production run.

1 5. A method according to claim 1, wherein:

2 said predetermined gas comprises a hydrocarbon fuel gas mixture which includes
3 approximately 90 percent by volume of MAPP gas and approximately 10 percent by volume
4 of propane.

1 6. A method according to claim 2, wherein:

2 said predetermined gas comprises a hydrocarbon fuel gas mixture which includes
3 approximately 90 percent by volume of MAPP gas and approximately 10 percent by volume
4 of propane.

1 7. A method according to claim 3, wherein:

2 said predetermined gas comprises a hydrocarbon fuel gas mixture which includes
3 approximately 90 percent by volume of MAPP gas and approximately 10 percent by volume
4 of propane.

1 8. A method according to claim 4, wherein:

2 said predetermined gas comprises a hydrocarbon fuel gas mixture which includes
3 approximately 90 percent by volume of MAPP gas and approximately 10 percent by volume
4 of propane.

5 9. A method according to claim 1, wherein:

6 said heating of said glass contacting surfaces is accomplished by combustion of said
7 predetermined gas in said flame delivered to said glass contacting surfaces.

1 10. A method according to claim 1, wherein:

2 said heating of said glass contacting surfaces is accomplished by combustion of said
3 predetermined gas in said flame delivered near said glass contacting surfaces.

1 11. A hydrocarbon fuel gas mixture especially suited for heating glass contacting
2 surfaces and/or lubricating purposes, comprising:

3 a hydrocarbon fuel gas mixture which includes approximately 90 percent by volume
4 of MAPP gas.

12. A hydrocarbon fuel gas mixture according to claim 11, wherein:

said hydrocarbon fuel gas mixture includes approximately 90% by volume of MAPP
gas and approximately 10% by volume of propane.

13. A method of heating glass contacting surfaces, comprising the steps of:

heating said glass contacting surfaces to a predetermined operating temperature;

said heating of said glass contacting surfaces is accomplished by combustion of a
predetermined gas in a flame;

said heating of said glass contacting surfaces is started with a 100% mixture of
MAPP gas to limit carbon skeleton formation;

then there is introduced a small quantity of natural gas which has extra hydrogen
atoms to give a suppressive influence for carbon formation; and

said heating of said glass contacting surfaces is maintained to avoid any chance of
dirty glass contacting surfaces.

1 14. A method according to claim 13, wherein:
2 said heating of said glass contacting surfaces to said predetermined operating
3 temperature is done before said glass contacting surfaces begin a production run.

1 15. A method according to claim 13, wherein:
2 said heating of said glass contacting surfaces to said predetermined operating
3 temperature is done to maintain said glass contacting surfaces at said predetermined
4 operating temperature during a production run.

5
6 16. A method according to claim 13, wherein:
7 said heating of said glass contacting surfaces to said predetermined operating
8 temperature is done before said glass contacting surfaces begin a production run and is
9 also done to maintain said glass contacting surfaces at said predetermined operating
10 temperature during a production run.

1 17. A method according to claim 13, wherein:
2 if propagation of carbon skeletons is too abundant, then said MAPP gas should be
3 turned off for a predetermined period of time to restore said glass contacting surfaces to
4 a clean condition.

1 18. A method of heating glass contacting surfaces, comprising the steps of:
2 heating said glass contacting surfaces to a predetermined operating temperature;
3 said heating of said glass contacting surfaces is accomplished by combustion of a
4 predetermined gas in a flame;
5 said heating of said glass contacting surfaces is started with a 100% mixture of
6 MAPP gas to limit carbon skeleton formation;
7 then said MAPP gas is mixed with air to produce a heat transfer system which will
8 maintain a sustained temperature on the average of 1800 K; and
9 said heating of said glass contacting surfaces is maintained to avoid any chance of
10 dirty glass contacting surfaces.

11 19. A method according to claim 18, wherein:
12 in said mixing step, said MAPP gas is mixed with air and natural gas.

1 20. A method according to claim 19, wherein:
2 in said mixing step, approximately 20 parts methylacetylene is used.

add
A1